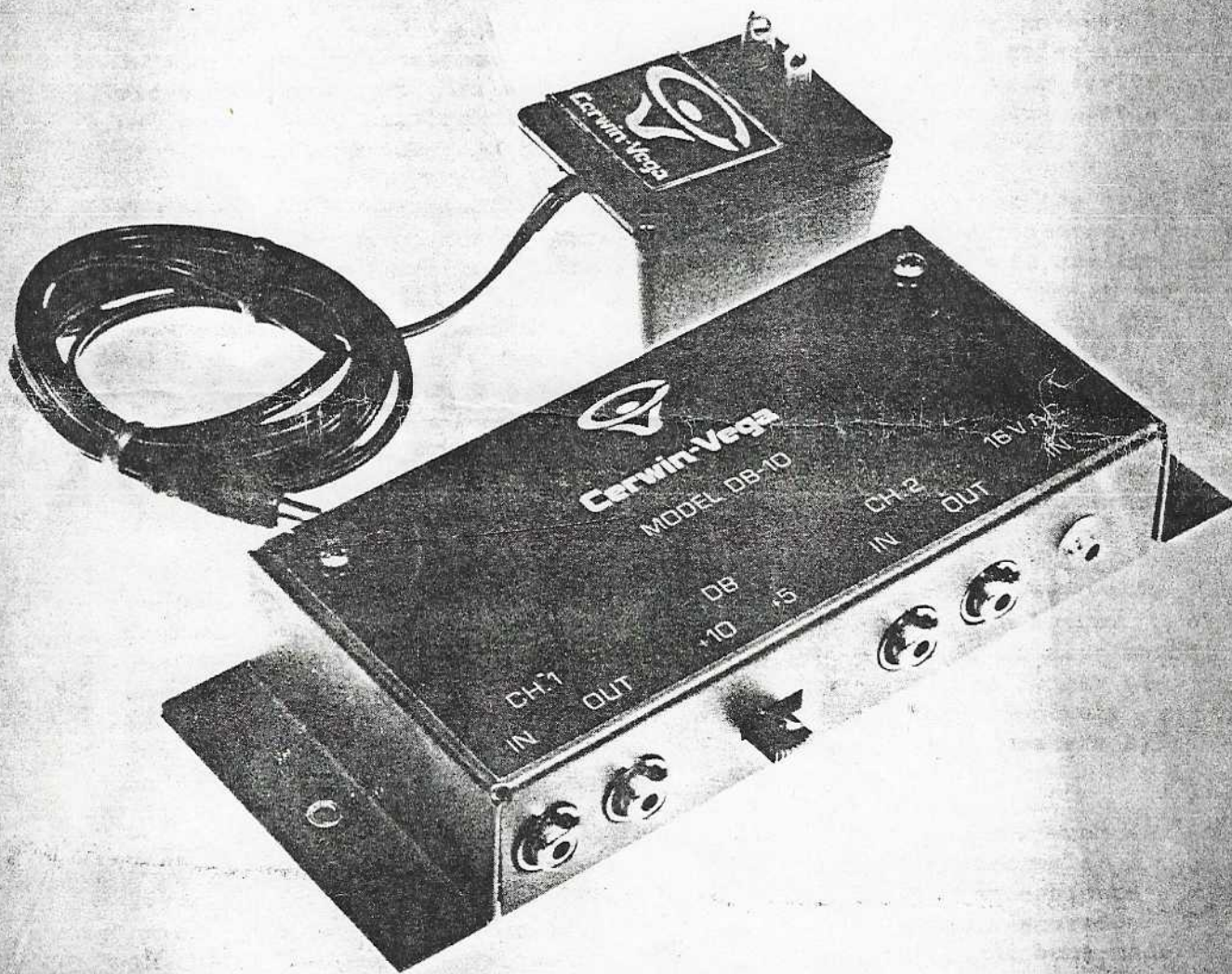


Cerwin-Vega

BASS TURBOCHARGER

DB-10 BASS EXCAVATOR

INSTRUCTION MANUAL



Please take a few minutes to read through this manual before attempting to use your new DB-10 Bass Excavator. Also please make sure that you read and understand the terms of the warranty before operating the unit.

GENERAL INFORMATION

Congratulations on your choice of a Cerwin-Vega DB-10 Bass Excavator for your audio system. Cerwin-Vega has designed the DB-10 to fill the need for a low cost accessory capable of reaching into the bottom region of the audio spectrum, extracting the elusive, hard-to-hear 30 and 40 Hz information, and separating it from subsonic noise and mid-bass "boom". In this respect, the DB-10 is a unique audio device, and no commonly available tone control (except a graphic equalizer at many times the price) can duplicate the function of the DB-10.

The DB-10's characteristics take into account the fact that the overwhelming majority of hi-fi speakers have rapidly failing response below 45-50 Hz. This fact, coupled with the low frequency losses encountered in recording, mixing, and mastering records, means that very deep bass is seldom heard with its original richness and impact. When coupled with reasonably capable speakers and an adequate amplifier, the DB-10 can restore much of this lost information. The effect with most program material is a subtle feeling of extra solidity and depth. With pipe organ, synthesizer, and other material containing much deep bass signal, the DB-10 can give remarkable improvement, allowing notes that previously went unheard to come through with satisfying fullness.

The other function of the DB-10 is to effectively filter out signals below 20 Hz, which are generated by warped records, turntable rumble, acoustic feedback, etc., and which may pass through to the system woofers with potentially damaging effects. With subsonic noise removed, a much greater degree of bass boost may be used with less danger of woofer overexcursion. The DB-10 performs this task so effectively that it allows you to increase the power to Cerwin-Vega speakers by as much as 50% over their power rating.

The DB-10 is safe to use with virtually any home or disco system as long as the power input to the speakers is kept at a reasonable level. It is not recommended for driving speakers in open cabinets or other arrangements that provide no "loading" to limit excursion in the 30 Hz range (this could include an improperly tuned home-made bass reflex system).

TECHNICAL NOTES AND SPECIFICATIONS

The DB-10 is a two channel active device designed to be inserted in the tape monitor circuit of a receiver or between preamplifier and amplifier (for installation, refer to the connections diagram for a typical hook-up configuration). A switch on the DB-10 provides a choice of two separate response curves. Position 1 (+10) gives a 10 dB boost at 32 Hz, decreasing to 6 dB at 40 Hz and 3 dB at 50. Position 2 (+5) provides a 5 dB boost at 32 Hz, decreasing to 3 dB at 50. In either position, response below 20 Hz is cut off sharply at a rate of 18 dB per octave.

These response characteristics effectively compensate for the tendency of most speakers to roll off rapidly below 40 Hz. As a speaker begins to roll off from a relatively flat frequency response, volume will be reduced at an even faster rate than the roll off slope. The DB-10 equalizes this roll off slope, and is able to produce virtually flat response down to 20 Hz, providing a truer, more substantial sound in the lower bass region.

The DB-10 is housed in a compact steel enclosure with standard RCA inputs and outputs. Its extremely quiet and reliable integrated circuit design yields almost unmeasurable distortion, and undistorted output capability up to 8 volts. Power is derived from a plug-in transformer which may be connected to the switched outlet of the audio system, or may be simply left on, since the DB-10 consumes less than 2 watts of AC power.

SPECIFICATIONS:

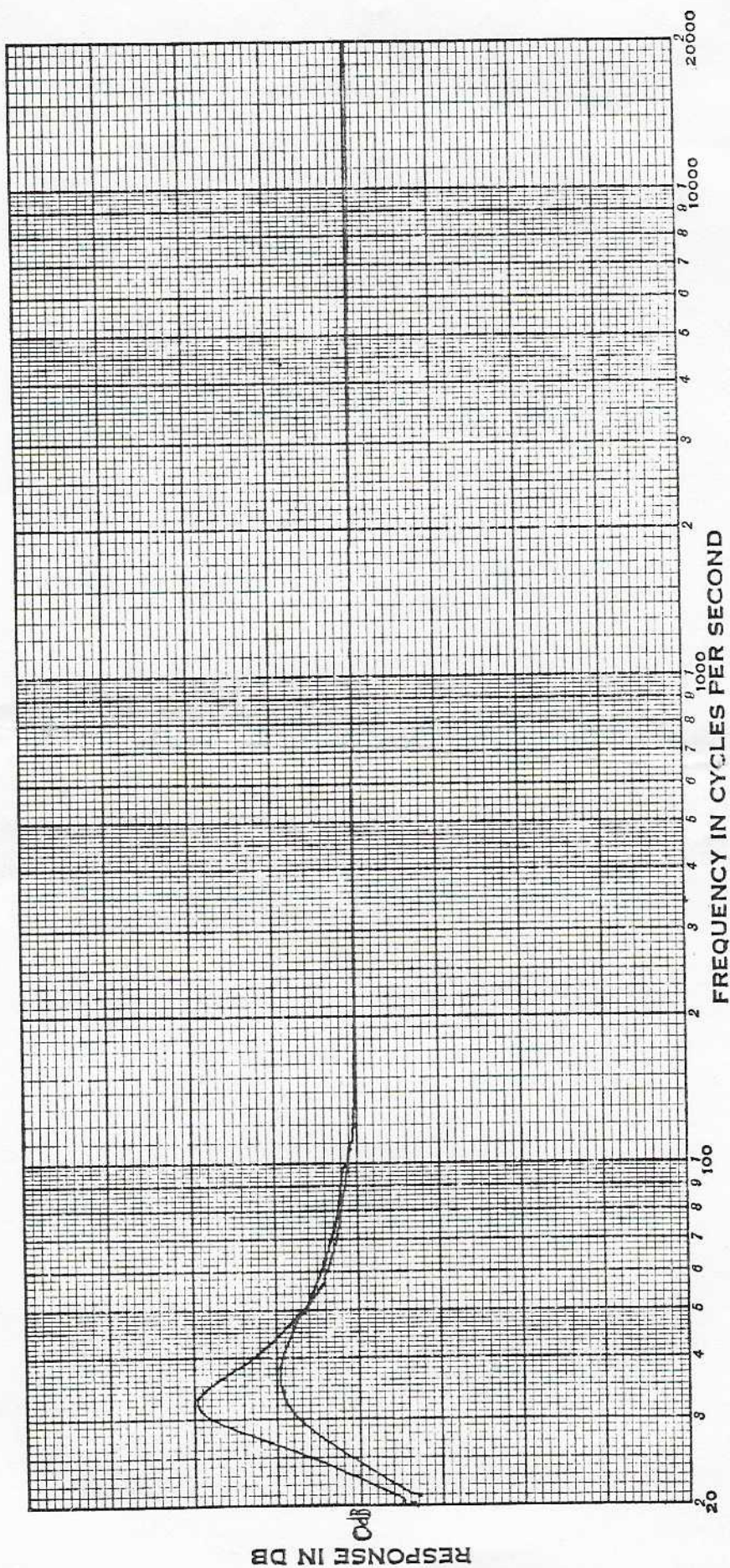
Frequency Response: 20-20K Hz $\pm$ 1 dB (response curve shown)

Rated Output: 8 volts RMS

Distortion: Less than 0.025%

Power Consumption: Less than 2 watts

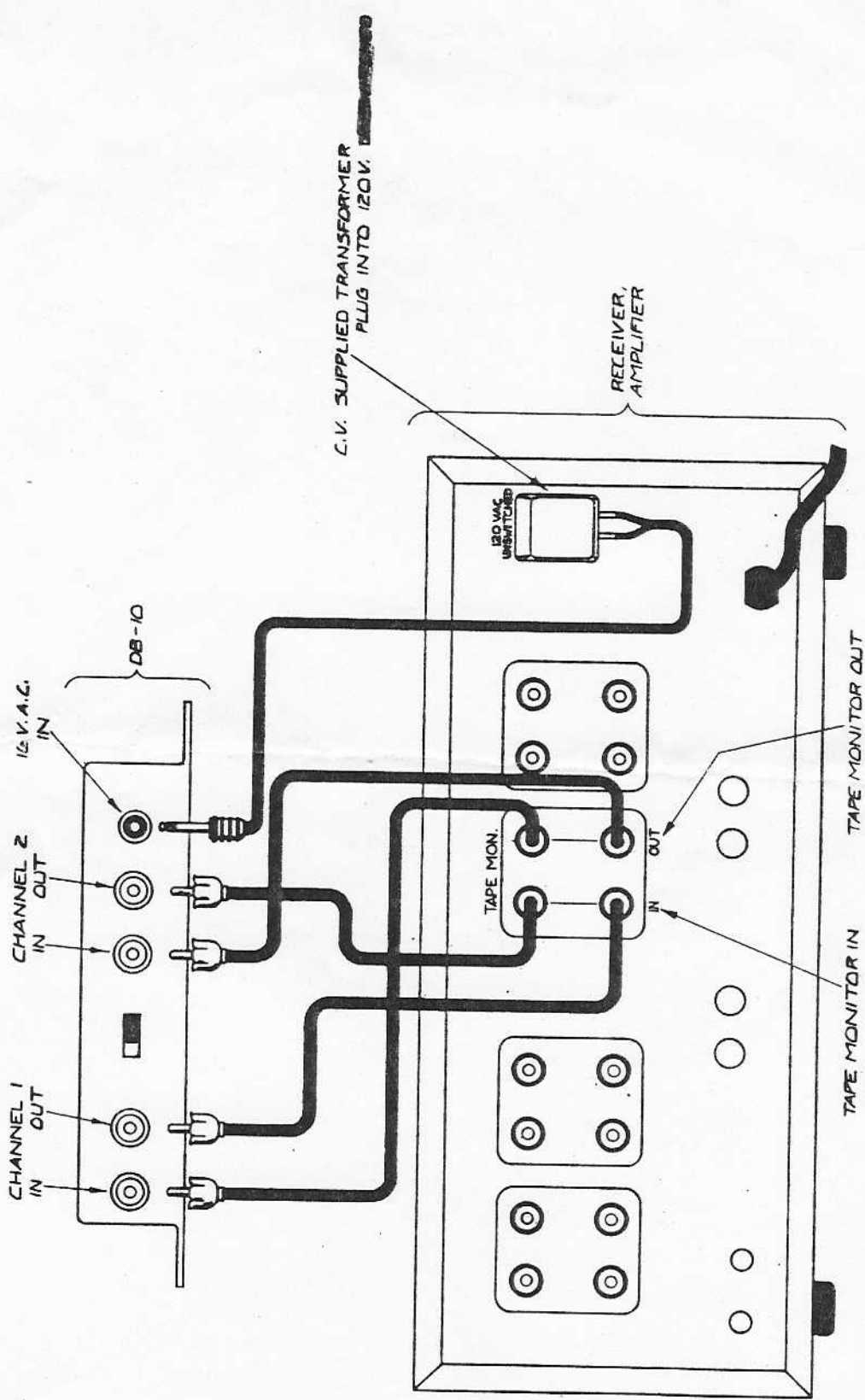
IF you Set the 30Hz +10, you SHOULD TRY Setting
the 60Hz to -5 To COMPENSATE FOR overlap



DB-10 RESPONSE CURVE 0 dB = 1.0 VRMS OUTPUT

Each major division represents 5 dB

83 115
072-085



DB-10 WIRING DIAGRAM

WARRANTY

Your new Cerwin-Vega DB-10 is warranted against defects in materials and workmanship for the following period:

In residential use only: 3 years

In commercial use: 1 year

This warranty is made to the original purchaser only, and excludes damage resulting from mechanical or electrical abuse. All service must be performed by a factory authorized service center, with any shipping to be paid by the owner. Any repairs or modifications not performed by a factory authorized center may void this warranty. The manufacturer assumes no liability for damage to other equipment resulting from malfunction of this unit.

Cerwin-Vega reserves the right to make the final determination as to the applicability of this warranty.

NOTE: You must fill out the attached warranty form and return it to Cerwin-Vega within 10 days of date of purchase to properly register your warranty.

CERWIN-VEGA, INC./12250 Montague St./Pacoima/Calif./91331